

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal with street lighting and interconnect at the intersection of MD 700 at kelso Drive and Cedar Drive in Baltimore County. MD 700 is assumed to run a North-South direction.

This project involves the removal of the Exclusive/Permissive left turns signal heads along MD 700 and the installation of to Exclusive left turn signal heads. The remaining signal heads are to be replaced with black face signal heads.

II. INTERSECTION OPERATION

- The intersection operate in a NEMA six-phase, full-traffic-actuated mode, with MD 700 approaches running concurrently. Exclusive left turn phases shall be provided for both approaches of MD 700. The kelso Drive and Cedar Drive approaches shall run concurrently.
- A full-traffic-actuated, eight-phase controller with all necessary equipment housed a NEMA size "5" Pole-mounted cabinet shall remain in operation at this intersection.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables to the appropriate terminals and shall properly label each cable.

PROJECT CONTACTS

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-321-2781

MR. GRADON TOBERY
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-321-2821

MR. STEVE MARCISZEWSKI
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-321-2761

MR. SUENETTE POPE
ASSISTANT DISTRICT ENGINEER - UTILITIES
410-321-2841

MR. DAVID CASTLE
BALTIMORE GAS & ELECTRIC - ELECTRICAL SERVICE
1-800-233-1854

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. RICHARD DAFF SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS DIVISION
410-787-7630

MR. ED RODENHIZER
TEAM LEADER - SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER - SIGN OPERATIONS
410-787-7676

SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7668

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

ITEM NO.	CATEGORY	CODE NO.	QUANTITY	DESCRIPTION
1001		100000	1 EACH	MAINTENANCE OF TRAFFIC
2002		203030	2 C.Y.	TEST PIT
8009		800000	2 EACH	FURNISH AND INSTALL 14 FOOT BREAKAWAY PEDESTAL POLE.
8013		800000	L.S.	REMOVE & DISPOSE OF EQUIPMENT
8016		800000	10 L.F.	FURNISH AND INSTALL 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) TRENCHED.
8021		801004	2 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION.
8023		802501	300 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO 6 AWG).
8026		805105	10 L.F.	FURNISH AND INSTALL 2" POLYVINYL CHLORIDE ELECTRICAL CONDUIT (SCHEDULE 80) BORED
8043		800000	6 S.F.	INSTALL OVERHEAD SIGN.
8050		837001	2 EACH	FURNISH AND INSTALL GROUND ROD, 3/4" DIAMETER X 10' LENGTH.
8052		860270	6 EACH	FURNISH AND INSTALL 8 INCH VEHICLE SIGNAL HEAD SECTION (BLACK FACE).
8053		860272	38 EACH	FURNISH AND INSTALL 12 INCH VEHICLE SIGNAL HEAD SECTION (BLACK FACED).
8058		861107	800 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLY DRIVE, HANOVER, MARYLAND 21076.

QUANTITY DESCRIPTION

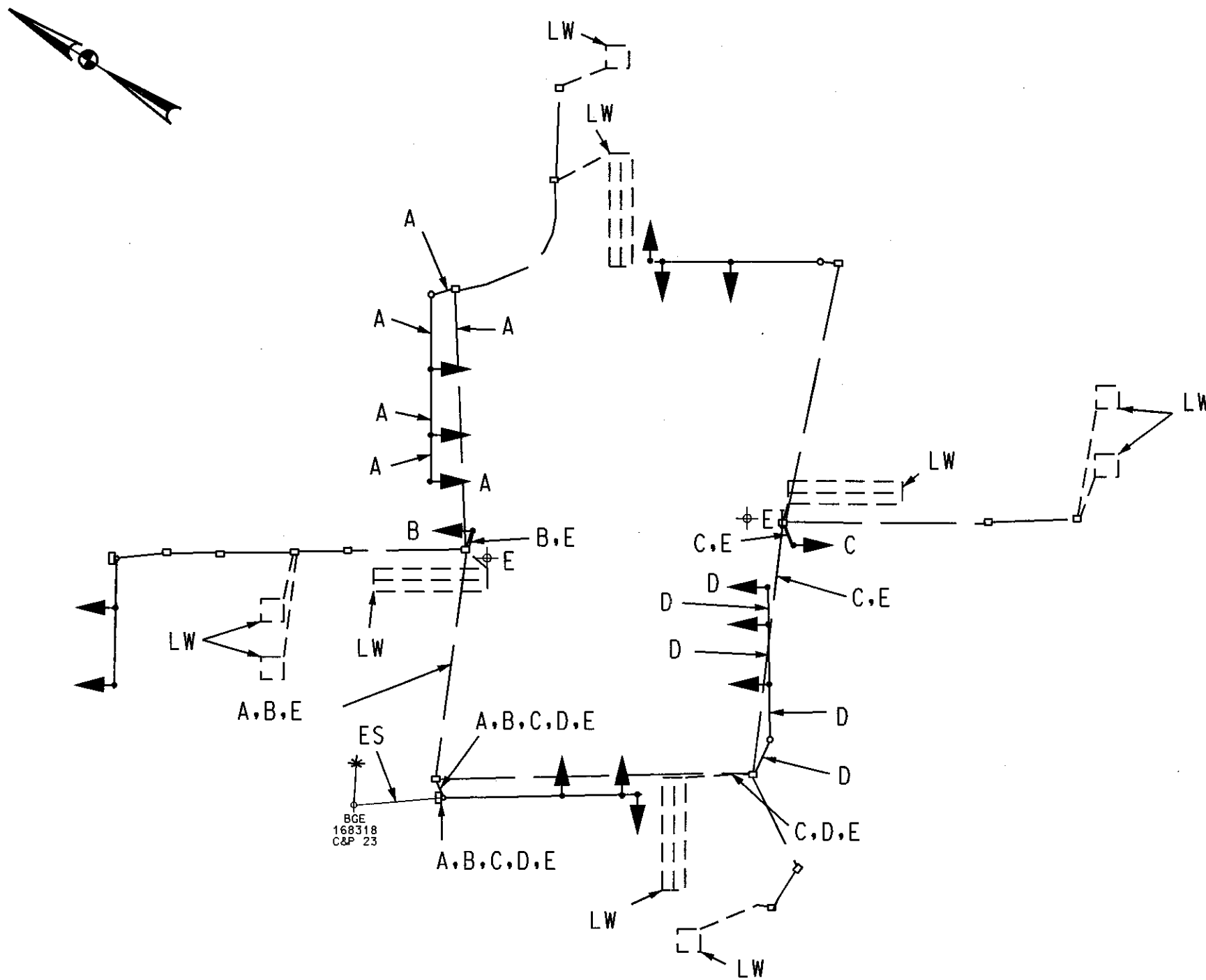
NONE

PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
⬅R⬅	⬅R⬅	R	R	Y	Y	⬅R⬅	⬅R⬅	R	R	⬅Y⬅	⬅Y⬅	R	R	⬅Y⬅	⬅Y⬅
⬅Y⬅	⬅Y⬅	Y	Y			⬅Y⬅	⬅Y⬅	Y	Y	⬅Y⬅	⬅Y⬅	Y	Y	⬅Y⬅	⬅Y⬅
⬅G⬅	⬅G⬅	G	G			⬅G⬅	⬅G⬅	G	G	⬅G⬅	⬅G⬅	G	G	⬅G⬅	⬅G⬅

PHASE 1 + 5	⬅G⬅	⬅G⬅	R	R	FL/Y	FL/Y	⬅G⬅	⬅G⬅	R	R	R	R	R	R	R		
1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + 6																↗
PHASE 1 + 6	⬅R⬅	⬅R⬅	R	R	FL/Y	FL/Y	⬅G⬅	⬅G⬅	G	G	R	R	R	R	R	R	↘
1 + 6 CHANGE	⬅R⬅	⬅R⬅	R	R	FL/Y	FL/Y	⬅Y⬅	⬅Y⬅	G	G	R	R	R	R	R	R	↖
PHASE 2 + 5	⬅G⬅	⬅G⬅	G	G	DARK	DARK	⬅R⬅	⬅R⬅	R	R	R	R	R	R	R	R	↗
2 + 5 CHANGE	⬅Y⬅	⬅Y⬅	G	G	DARK	DARK	⬅R⬅	⬅R⬅	R	R	R	R	R	R	R	R	↘
PHASE 2 + 6	⬅R⬅	⬅R⬅	G	G	DARK	DARK	⬅R⬅	⬅R⬅	G	G	R	R	R	R	R	R	↖
2 + 6 CHANGE	⬅R⬅	⬅R⬅	Y	Y	FL/Y	FL/Y	⬅R⬅	⬅R⬅	Y	Y	R	R	R	R	R	R	↗
PHASE 4 + 8	⬅R⬅	⬅R⬅	R	R	FL/Y	FL/Y	⬅R⬅	⬅R⬅	R	R	G	G	G	G	G	G	↘
4 + 8 CHANGE	⬅R⬅	⬅R⬅	R	R	FL/Y	FL/Y	⬅R⬅	⬅R⬅	R	R	Y	Y	Y	Y	Y	Y	↖
FLASHING OPERATION	FL/⬅R⬅	FL/⬅R⬅	FL/Y	FL/Y	DARK	DARK	FL/⬅R⬅	FL/⬅R⬅	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	↕

WIRING DIAGRAM



WIRING KEY

- A- D - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) LW - EXISTING LOOP WIRE
- E - STRADED BARE COPPER GROUND WIRE (NO. 6 A.W.G.) ⚡ - 3/4 IN. x 10 FT. GROUND ROD
- ES - EXISTING OVERHEAD SERVICE

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	CATEGORY	CODE NO.	QUANTITY	DESCRIPTION
9571		861108	6 S.F.	OVERHEAD MOUNTED SHEET ALUMINUM SIGNS TO CONSIST OF:
			2 EA	R10-5 "LEFT ON GREEN ARROW ONLY" SIGN.
				(18"x24") MAST ARM MOUNTED.

REVISIONS CHG: 04/15/85/053		MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION SHEET MD 700 AT KELSO / CEDAR DRIVES MIDDLE RIVER, MARYLAND	
⑥ MODIFY E/P LEFT TURNS TO EXCLUSIVE LEFT TURNS AND REPLACE SIGNAL HEADS WITH BLACK FACE SIGNAL HEADS 10/1/03 SHA NO. AT2885185		DRAWN BY: M. Schneider CHECKED BY: E. Milesky SCALE: N/A DATE: 06/11/1985	
D.L.A. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> A. REVISED THE LOCATION OF H1B TO ALLOW FOR OVERHEAD SERVICE 3/86 SHA NO. B-809-501-485		F.A.P. NO. N/A S.H.A. NO. B-809-501-485 COUNTY: BALTIMORE LOG MILE: 03070001.75	
J.A.H. M.A.R. D.A.Z. B.R.K. <input type="checkbox"/> T.H.		TS NO. 2088B T.I.M.S. NO. F778 SHEET NO. 2 OF 2	